

Syllabus: Math 1100-70

Spring 2022

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COURSE AND INSTRUCTOR DESCRIPTION

Course Description:

- **Course Number and Title:** Math 1090-70, Business Algebra
- **Semester and Year:** Spring 2022
- **Course Overview:** Math 1100, Business Calculus, provides an overview of the themes of calculus and how they relate to business and economics. Topics include differentiation, maximization and minimization of functions, marginal analysis and the optimization of constrained functions, integration and applications. Math1100 is a 3-credit semester course and satisfies the University's QR requirement (QR refer to both the QA and QB requirements).
- **Course Type:** In-person class
- **Location:** Room 107 Sandy Campus, 10011 Centennial Parkway, Suite 100, Sandy, UT 84070. For directions call 801-587-2520 or visit <https://sandy.utah.edu/>.
- **Meeting Days and Times:** MW 5:30 – 7:00 PM.

Instructor Information:

- **Instructor:** John Nordstrom
- **Email:** nordstro@math.utah.edu
- **Accessibility & Support:** I want to provide lots of opportunities for you to talk about math or talk with me. I try to come to class 5-10 minutes early, so there is time to ask about HW and past material. I can always stay after class for as long as necessary. Please also ask questions in class. Outside of class, I encourage you to post questions, especially about HW, and responses in online Canvas Discussions. I look them over almost daily, but wait 24-36 hours after a post is made to respond to encourages all members of our class to participate. You are also welcome to e-mail me or contact me through Canvas mail.
- **Office Hours:** In addition to being available after class I will have at least one hour of regularly scheduled Zoom-based office hours. The day and time of these office hours is yet to be determined.

COURSE DETAILS

- **Prerequisite:** Starting in Summer 2021, the Math Department will not be using prerequisites to place students in math classes. Students are responsible for determining whether they are ready for the course they select. The former prerequisites for Math 1100 are listed below. These are still recommended as guidelines to determine if you have the background to be successful in this course (without a lot of additional work on your part):
 - C or better in Math1050, 1080, 1090, or 1210
 - 263+ in Accuplacer AAF (The UofU provides one free Accuplacer exam to all students. <https://testingcenter.utah.edu/students/placement-tests/math-placement.php>)
 - 28+ in ACT Math
 - 650+ in SAT Math
 - Qualifying GPA 3.75

Note, if you have already had 2 or more semesters of calculus, you have already covered much of this course's mathematical content.

- **Course Materials:**
 - **Textbook:** Mathematical Applications for the Management, Life and Social Sciences, 12th Edition, by Harshbarger & Reynolds
ISBN 13: 978-1-337-62534-0
 - **Online Homework Site:** WebAssign (is included with textbook purchase; access information will be provided in class)

This book is being sold to student through the inclusive access program, so as to reduce the price of the book. An email will go out to all Math1100 students prior to the first day of class with information on what Inclusive Access is and instructions on how to access their digital course materials. Essentially, students will be billed for the book along with their tuition, and they won't need

to do anything else to get access to the online book with this option. Students have the option to OPT OUT, but the default is to opt in. If a student opts out during the first two weeks of class, they will not be charged for the book. If they opt out, the student will be responsible to purchase/rent/borrow the book elsewhere. Through the Inclusive Access Program, students will receive a digital copy of the book. The cost for Math1100 access is around \$59.00. If a student wishes to order a hard copy of the book, they can talk to Heidi Booth (U of U Bookstore) and a copy of the book can be special ordered. Lastly, if the Marriott Library is open, there are copies of the book at the Reserve Desk in the Marriott Library that you can check out for three hours at a time. This is a free option for students.

- **Additional course materials:**

- The course website is in Canvas.
- We will use the online site, Gradescope, for grading and giving feedback on exams. There is a link in Canvas to Gradescope. You may be asked to submit some assignments directly to Gradescope.

- **Technical requirements:**

- You may find it helpful to have a graphing calculator for your own personal use. However, if I allow calculators on exams or quizzes, I will only allow scientific calculators (no graphing or programmable calculators will be allowed ever). Most of the time, you will not have use of a calculator on exams and quizzes. This will be discussed more in class with each quiz and test.
- Access to the Internet – to access course materials
- A scanning device – to turn in some assignments

- **Attendance & Punctuality:** Students are expected to attend classes and, if classes are missed, to go through the material covered in class by watching videos, reading the textbook, and thinking about course ideas. If you miss a quiz or other in-class assignment, instead of having make-ups, a certain number of assignments will be dropped at the end of the semester. For exams, exceptions are made if there are extenuating circumstances. (See Grading policies later in the syllabus for more details.)

- **UofU Learning Support:**

- Math Center Tutoring, (Paid for by Your Student Fees)
<http://www.math.utah.edu/undergraduate/mathcenter.php>
- The Learning Center, 3 free tutoring sessions, \$5 after that, learning consultations
<https://learningcenter.utah.edu/>
- Student Success Advocates <https://ssa.utah.edu/events.php>

- **General Help:**

- Here is information from the University about logistics in light of COVID-19. There is also information about financial assistance, counseling, the food pantry, and much more.
<https://coronavirus.utah.edu/#students>

- **Equipment Help**

- The UofU has a laptop and mobile hotspot loan program – laptops, mobile hotspots mailed to current U students on a first-come, first-served basis. You can find out more information about this through this link: <https://lib.utah.edu/coronavirus/checkout-equipment.php>
- For technical assistance, review the [Canvas Getting Started Guide for Students](https://community.canvaslms.com/docs/DOC-10701) <https://community.canvaslms.com/docs/DOC-10701> and/or contact TLT, Knowledge Commons, etc.

COURSE EXPECTED LEARNING OUTCOMES (ELOs)

1. Have a basic conceptual understanding of limits.
2. Know how to differentiate and integrate polynomial, rational, logarithmic, and exponential functions.
3. Use derivatives to gather information about the shape of the curve and use that information to graph the curve $y = f(x)$, for polynomial, logarithmic, exponential and simple rational functions.
4. Understand how to use differentiation to optimize functions for business applications, such as maximizing profit examples.
5. Use integration to find area under curves and for business examples such as average value.
6. Take partial derivatives of basic functions of two variables.

COURSE DESIGN

- **Lectures:** Classes will combine lecture with time to discuss and practice material. Active participation is encouraged.
- **Homework Assignments:**
HW will be given in WebAssign. It will be due twice each week. There is a late assignment option and late assignment will receive 80% credit.
- **Quizzes:** There will be quizzes on Wednesday most weeks. They will be given in class and a set amount of time, generally 30 minutes, will be given. The lowest 3 quiz grades will be dropped.
- **Two midterm exams.** Review Material will be provided in class. You may/should prepare 1 sheet of notes to use during the exam. You should also have a scientific calculator. No other materials are allowed during the exam.
- **Final Exam:** Math 1090 students take a final exam at a date and time set by the University (see information below). There is a final at the end of the course. It covers material not on previous exams and selected topics from earlier in the course. The procedures will be similar to the midterm exams.

CLASS SCHEDULE & IMPORTANT DATES

Weekly Deadlines:

- Homework – due Sunday at 11:59 pm (grace period through 5 am the next day)
- Quizzes – due in class on Wednesdays

Tentative Schedule of Topics – to be adjusted as necessary

Week/Date	Material Covered	Notes
1 (1/10 - 1/16)	9.1 – 9.2	
2 (1/17 – 1/23)	9.2 – 9.3	Monday: MLK Day
3 (1/24 - 1/30)	9.4 – 9.6	
4 (1/30 – 2/6)	9.7 – 9.9	
5 (2/7 – 2/13)	10.1 – 10.3	
6 (2/14 – 2/20)	10.4	Review for Exam 1
7 (2/21 – 3/27)	Exam 1 on Wednesday 3/23	Monday: Presidents Day
8 (2/28 – 3/6)	10.4 – 10.5	
BREAK (3/7 – 3/13)		
9 (3/14-3/20)	11.1 – 11.4	
10 (3/21 – 3/27)	11.4 – 11.5	
11 (3/28 – 4/3)	12.1 – 12.3	
12 (4/5 – 4/11)	12.4, 13.1 – 13.2	
13 (4/12 – 4/18)	Exam 2 on Wednesday 4/14	
14 (4/19 -4/25)	13.3 – 13.7	
15 (4/26 – 4/27)	14.1 – 14.2	Wednesday: Optional Study Session
Final:	Monday 5/2 from 6:00 – 8:00 PM	

Important Dates:

Classes begin: Monday, January 10

Last day to add without a permission code/wait list: Friday, January 14

Last day to add or drop classes: Friday, January 21

MLK Day (no class) Monday, Jan 17

Exam 1: Wednesday, March 23

Presidents' Day (no class) Monday, Feb 21

Spring Break: Monday Mar 6 – Friday, Mar 10

Last Day to Withdraw from Classes, Friday, April 1

Exam 2: Wednesday, April 14

Last Day of Class Tuesday, April 6

Final Exam: Monday, May 2, from 6:00 – 8:00 PM

ASSIGNMENTS, ASSESSMENT, GRADING, & LATE POLICY

Assignment Category	Contribution to Grade	Adjustments (dropped at the end of the semester)
Homework	20%	Lowest 3
Quizzes	15%	Lowest 3
Exam 1	20%	
Exam 2	20%	
Final Exam	25%	

Extra credit, worth around 3% of the grade can be earned by doing multiple successful habits in a week, helping spot errors in the course, and via other opportunities announced in class.

Grading Scale:

A [93-100),
A- [90-93),
B+ [87-90),
B [83-87),

B- [80-83),
C+ [77-80),
C [73-77),
C- [70-73),

D+ [67-70),
D [60-67),
D- [50-60),
E [0-50).

Regrading Policy: If a grade is recorded incorrectly, it is the student's responsibility to let the instructor know in a timely manner (at the latest within 2 weeks of when the grade was recorded.)

Late/Makeup Work: The course is designed to provide flexibility if you occasionally cannot turn work in on time. A certain number of scores at the end of the semester are dropped. But in general, you are expected to turn things in on time and take quizzes and exams at the times given. If there are extenuating circumstances, please contact me in a timely way to discuss alternatives. If the situation is one that can be documented, you may be asked to provide documentation.

There is a late assignment option and late assignment will receive 80% credit if turned in within a week of the due date.

The University of Utah student code allows for making up quizzes or exams in advance for "officially sanctioned University Activities ..., or government obligations, or religious obligations". Please contact me at least one week in advance of any events.

Credit/No Credit Option:

- If you are taking Math 1100 to meet a major or minor requirement, then you should opt for a letter grade, rather than credit/no credit (CR/NC).
- This is the official University description of the credit/no credit option: "The credit/no credit (CR/NC) option allows a student to enroll in selected courses outside of his/her academic plan, without the pressure of competing for a letter grade. By electing CR/NC, students are expected to complete the same work as students enrolled for letter grades." If you are interested in credit/no credit, consult the following:
 - University guidelines: <https://catalog.utah.edu/#/policy/B12v3LX0G?bc=true&bcCurrent=Grading%20Poli>
 - Dates for Choosing CR/NC <https://registrar.utah.edu/academic-calendars/spring2021.php>
 - Consider speaking with an academic advisor to determine whether this is a good option.

Incompletes:

According to university policy, to be considered for an incomplete, a student must have 20% or less of the course work remaining and be passing the course with a C or better. You must request an incomplete grade and I will consider giving that grade only under exceptional circumstances.

COMMUNICATION

- All course materials, such as lecture slides, assignments, solutions, grades, etc. will be posted on the Course Canvas site.

- Class announcements will be done via email through the Canvas server and in the Canvas announcements page. You will be responsible for any information contained in them as well as the information announced in class. Students are also strongly advised to set up notifications for canvas so they do not miss any important notifications.
- It is your responsibility to also regularly check your Umail (make sure you set up forwarding if you do not check it regularly), your Umail is the only way for me to communicate privately with you, there will be occasions during the semester that we may need to reach out to you individually (e.g., regarding a grade or assignment) and it is in your best interest to respond promptly.
- Feel free to contact me by email for questions, I will do my best to answer emails within 24 hours. I would like to encourage you to email me only if it is something personal that requires individual attention. If instead you have questions about the logistics of the class, course material and assignments, or anything else your classmates might wonder as well, please post a question on the Canvas Discussions Board. This way the information is shared quickly to the entire class, and everyone benefits from seeing other classmates' questions and the responses.

NETIQUETTE - EXPECTATIONS FOR ONLINE LEARNING ENVIRONMENT

- Respectful participation in all aspects of the course will make our time together productive and engaging. Zoom lectures, discussion threads, emails and canvas are all considered equivalent to classrooms and student behavior within those environments shall conform to the student code. Specifically:
 - Posting photos or comments that would be off-topic in a classroom are still off-topic in an online posting.
 - Disrespectful language and photos are never appropriate.
 - Using angry or abusive language is not acceptable, and will be dealt with according to the Student Code. The instructor may remove online postings that are inappropriate.
 - Do not use ALL CAPS, except for titles, or overuse certain punctuation marks such as exclamation points and question marks.
 - Course e-mails, e-journals, and other online course communications are part of the classroom and as such, are University property and subject to the Student Code. Privacy regarding these communications between correspondents must not be assumed and should be mutually agreed upon in advance, in writing.
- Here are additional expectations for online communication (on Discussion Board, Emails, Zoom chat etc):
 - Emails: When emailing your Instructor and Teaching Team keep a professional tone (e.g. Use a descriptive subject line, avoid "Hey" and begin the e-mail with Dear Rebecca or Dear Dr. Noonan Heale. Sign your message with your name and return e-mail address. Please consult this page for tips on how to write appropriate professional emails: <https://academicpositions.com/career-advice/how-to-email-a-professor>
 - Treat your instructor, teaching team and classmates with respect in email or any other communication.
 - Avoid slang terms such as "wassup?" and texting abbreviations such as "u" instead of "you."
 - Be cautious when using humor or sarcasm as tone is sometimes lost in an email or discussion post and your message might be taken seriously or be offensive to others.
 - Be careful with personal information (both yours and others).
- Electronic or equipment failure: It is your responsibility to maintain your computer and related equipment in order to participate in the online portion of the course. Equipment failures will not be an acceptable excuse for late or absent assignments.
- Online submissions: You are responsible for submitting the assignment with the required naming convention, correct file extension, and using the software type and version required for the assignment.
- Canvas allows students to change the name that is displayed AND allows them to add their pronouns to their Canvas name.

ACADEMIC CODE OF CONDUCT

Students are encouraged to review the Student Code for the University of Utah: <https://regulations.utah.edu/academics/6-400.php>. In order to ensure that the highest standards of academic conduct are promoted and supported at the University, students must adhere to generally accepted standards of academic honesty, including but not limited to refraining from

cheating, plagiarizing, research misconduct, misrepresenting one's work, and/or inappropriately collaborating. A student who engages in academic misconduct as defined in Part I.B. may be subject to academic sanctions including but not limited to a grade reduction, failing grade, probation, suspension or dismissal from the program or the University, or revocation of the student's degree or certificate. Sanctions may also include community service, a written reprimand, and/or a written statement of misconduct that can be put into an appropriate record maintained for purposes of the profession or discipline for which the student is preparing.

ADDITIONAL POLICIES AND RESOURCES

COVID-19 Considerations

University leadership urges all faculty, students, and staff to model the vaccination, testing, and masking behaviors we want to see in our campus community. These include:

- **Vaccination:** Get a COVID-19 vaccination if you have not already done so. Vaccination is proving highly effective in preventing severe COVID-19 symptoms, hospitalization and death from coronavirus. Vaccination is the single best way to stop this COVID resurgence in its tracks. Visit <http://mychart.med.utah.edu/>, <http://alert.utah.edu/covid/vaccine>, or <http://vaccines.gov/> to schedule your vaccination.
- **Masking:** While masks are no longer required outside of Health Sciences facilities, UTA buses and campus shuttles, CDC guidelines now call for everyone to wear face masks indoors.
- **Testing:** If you are not yet vaccinated, get weekly asymptomatic coronavirus tests. This is a helpful way to protect yourself and those around you because asymptomatic individuals can unknowingly spread the coronavirus to others. Saliva based testing is available at alert.utah.edu/covid/testing
- **Self-Reporting:** All of us, including faculty, students, and staff, must self-report if we test positive for COVID-19 via this website: <https://coronavirus.utah.edu/>.

I will be doing my best this semester to stay healthy, so that I can support you as your instructor. I will be wearing a mask in class for in-person office hours. I urge you, when coming to class or in-person office hours, to wear a mask.

Plagiarism and Academic Integrity: Academic integrity means that scholars, including students, conduct their work ethically. This includes taking credit only for work they themselves perform. Violations of academic integrity undermine the principle of fairness, devalue your degree, and leave you underprepared for applying what you have been taught. In this way, it defrauds you, your classmates, the university, and the people you will serve with your education after graduation. It includes cheating on tests and other assessments, collaborating on projects when not permitted to, presenting other people's work as yours (whether they agree to that), and more. Plagiarism is a serious offense against academic integrity that could result in failure for the test or paper, failure for the course, and expulsion from the university. Plagiarism usually involves passing off the work, words, or ideas of others as your own without giving proper credit.

Privacy Policy: FERPA, the federal law that guards student privacy, prohibits me from discussing your performance in this class with anyone except you without your permission, which must be on file with the university, not simply told to me. To ensure compliance with this law, send e-mail with a university e-mail address or via Canvas mail.

Out of respect for the privacy of your classmates, do not record or screenshot any part of this class for use outside of this class, even if you omit identifying information about the speaker or poster. You may not circulate or share images, clips, or other course materials with individuals who are not enrolled in this class. Doing so is a serious violation of our class ethical code and will result in a charge of academic misconduct.

Inclusivity Statement: It is my intent that students from all diverse backgrounds and perspectives be well served by this course, that students' learning needs be addressed both in and out of class, and that the diversity that students bring to this class be viewed as a resource, strength and benefit. It is my intent to present materials and activities that are respectful of diversity: age, color, disability, gender, gender identity, gender expression, national origin, political affiliation, race, religion, sexual orientation, and veteran status, and other unique identities. gender, sexuality, disability, age, socioeconomic status, ethnicity, race, culture, and other unique identities. Your suggestions are encouraged and appreciated. Please let me know ways to improve the effectiveness of the course for you personally or for other students or student groups. In addition, if any of our class meetings conflict with your religious events, please let me know so that we can make arrangements for you.

Discrimination and Harassment: If you or someone you know has been harassed or assaulted, you are encouraged to report it to the Title IX Coordinator in the Office of Equal Opportunity and Affirmative Action, 135 Park Building, 801-581-8365, or Office of the Dean of Students, 270 Union Building, 801-581-7066. To report to the police, contact the Department of Public Safety, 801-585-2677(COPS). Please see Student Bill of Rights, section E <http://regulations.utah.edu/academics/6-400.php>. I will listen and believe you if someone is threatening you.

Names/Pronouns. Canvas allows students to change the name that is displayed AND allows them to add their pronouns to their Canvas name. Class rosters are provided to the instructor with the student's legal name as well as "Preferred first name" (if previously entered by you in the Student Profile section of your CIS account, which managed can be managed at any time). While CIS refers to this as merely a preference, I will honor you by referring to you with the name and pronoun that feels best for you in class or on assignments. Please advise me of any name or pronoun changes so I can help create a learning environment in which you, your name, and your pronoun are respected. If you need any assistance or support, please reach out to the LGBT Resource Center. https://lgbt.utah.edu/campus/faculty_resources.php

English Language Learners. If you are an English language learner, please be aware of several resources on campus that will support you with your language and writing development. These resources include: the Writing Center (<http://writingcenter.utah.edu/>); the Writing Program (<http://writing-program.utah.edu/>); the English Language Institute (<http://continue.utah.edu/eli/>). Please let me know if there is any additional support you would like to discuss for this class.

Undocumented Student Support. Immigration is a complex phenomenon with broad impact—those who are directly affected by it, as well as those who are indirectly affected by their relationships with family members, friends, and loved ones. If your immigration status presents obstacles to engaging in specific activities or fulfilling specific course criteria, confidential arrangements may be requested from the Dream Center. Arrangements with the Dream Center will not jeopardize your student status, your financial aid, or any other part of your residence. The Dream Center offers a wide range of resources to support undocumented students (with and without DACA) as well as students from mixed-status families. To learn more, please contact the Dream Center at 801.213.3697 or visit dream.utah.edu.

Veterans Center. If you are a student veteran, the U of Utah has a Veterans Support Center located in Room 161 in the Olpin Union Building. Hours: M-F 8-5pm. Please visit their website for more information about what support they offer, a list of ongoing events and links to outside resources: <http://veteranscenter.utah.edu/>. Please also let me know if you need any additional support in this class for any reason.

Wellness Statement. Personal concerns such as stress, anxiety, relationship difficulties, depression, cross-cultural differences, etc., can interfere with a student's ability to succeed and thrive at the University of Utah. For helpful resources contact the Center for Student Wellness at www.wellness.utah.edu or 801-581-7776.

Student Success Advocates: The mission of Student Success Advocates is to support students in making the most of their University of Utah experience (ssa.utah.edu). They can assist with mentoring, resources, etc. Any student who faces challenges securing their food or housing and believes this may affect their performance in the course is urged to contact a Student Success Advocate for support (<https://asuu.utah.edu/displaced-students>).

The Americans with Disabilities Act:

The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in the class, reasonable prior notice needs to be given to the Center for Disability & Access, 162 Olpin Union Building, 801-581-5020. CDA will work with you and the instructor to make arrangements for accommodations. All written information in this course can be made available in alternative format with prior notification to the Center for Disability & Access.

Addressing Sexual Misconduct: Title IX makes it clear that violence and harassment based on sex and gender (which includes sexual orientation and gender identity/expression) is a Civil Rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, color, religion, age, status as a person with a disability, veteran's status or genetic information. If you or someone you know has been harassed or assaulted on the basis of your sex, including sexual orientation or gender identity/expression, you are encouraged to report it to the University's Title IX Coordinator; Director, Office of Equal Opportunity and Affirmative Action, 135 Park Building, 801-581-8365, or to the Office of the Dean of Students, 270 Union

Building, 801-581-7066. For support and confidential consultation, contact the Center for Student Wellness, 426 SSB, 801-581-7776. To report to police, contact the Department of Public Safety, 801-585-2677(COPS).

Campus Safety: The University of Utah values the safety of all campus community members. To report suspicious activity or to request a courtesy escort, call campus police at 801-585-COPS (801-585-2677). You will receive important emergency alerts and safety messages regarding campus safety via text message. For more information regarding safety and to view available training resources, including helpful videos, visit safeu.utah.edu

University Counseling Center The University Counseling Center (UCC) provides developmental, preventive, and therapeutic services and programs that promote the intellectual, emotional, cultural, and social development of University of Utah students. They advocate a philosophy of acceptance, compassion, and support for those they serve, as well as for each other. They aspire to respect cultural, individual and role differences as they continually work toward creating a safe and affirming climate for individuals of all ages, cultures, ethnicities, genders, gender identities, languages, mental and physical abilities, national origins, races, religions, sexual orientations, sizes and socioeconomic statuses. More information about the counseling center, including ways to contact them, can be found here: <https://counselingcenter.utah.edu/>.

Office of the Dean of Students The Office of the Dean of Students is dedicated to being a resource to students through support, advocacy, involvement, and accountability. It serves as a support for students facing challenges to their success as students, and assists with the interpretation of University policy and regulations. Please consider reaching out to the Office of Dean of Students for any questions, issues and concerns. 200 South Central Campus Dr., Suite 270. Monday-Friday 8 am-5 pm. Their phone number is 801-582-7066.

Syllabus subject to change: This syllabus is meant to serve as an outline and guide for our course. Please note that I may modify it with reasonable notice to you. I may also modify the Course Schedule to accommodate the needs of our class. Any changes will be announced in class and posted on Canvas